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PURPOSE OF RELEASE: HEALTH STUDY FEASIBILITY REPORT

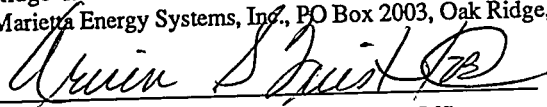
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**APPROVAL FOR RELEASE**

Document: # Unnumbered; Date                     ;  
Title/Subject Discharge of Strontium-90 at ORGDP

Approval for unrestricted release of this document is authorized by the Oak Ridge K-25 Site Classification and Information Control Office, Martin Marietta Energy Systems, Inc., PO Box 2003, Oak Ridge, TN 37831-7307.

 2/1/93  
K-25 Classification & Information Control Officer Date

12:00  
12/3/85

- 48807  
43282

Samples Run By ORNL L26

Standard

~~Water Plant Intake~~ 8 pic/l

Sanitary Water Storage Tank 10 pic/l  
13 pic/l

Sample from Distribution System 27 pic/l  
at 151007

- Discontinue to drink  $H_2O$   
use Sanitary

TWO  
4-3282

12/3/85

4:20 p.m.

Bob Jordan notified Chet Matthews  
of situation.

Larry, Gary, et al. attended mtg  
in Wiltshire's office.

## UNUSUAL INCIDENT FORM

Date: 12/2/85 Time: 4:50 Call taken by: C. JohnsonCall from: Walt Ohnesorge For installation: ORNL  
4-6671

## NATURE OF INCIDENT:

Date: 12/2/85 Time: 4:00

Location: \_\_\_\_\_

## DESCRIPTION:

## COMMENTS:

Severity  
 Subcontractor, Contractor  
 PCB  
 Chemicals  
 Quantities  
 Human Injuries  
 Human Exposure  
 Damage  
 Action Taken  
 Applicable Regulations  
 Applicable Laws

Stronium 901 (today) 10 times  
over dam  
limit  
Composite for previous work  
at limit. Realized from  
Grab Sample taken this morning

Operations - thinks they know the source  
3517 flooded (Storm sewer line  
broke & contaminated filter pit area at 3517

Previous Similar Incident: \_\_\_\_\_

## Notification:

P.S. Rohrer → DOE ✓  
 PR Wetshin  
 COR Wetshin

Plant Manager \_\_\_\_\_  
 K. Jarmolow \_\_\_\_\_  
 Corporate \_\_\_\_\_

Safety \_\_\_\_\_  
 Security \_\_\_\_\_  
 Other \_\_\_\_\_

## Follow-up action needed:

20 \* SR<sup>90</sup> Limit \* 7505 Samples location  
Oakes called LSS to have them contract  
ORGDP.

5:58P<sup>m</sup> Larry Lasher feels problem is in evaporator/ion exchange  
 hope to have more info in couple of hours (sample results) Hdg.

## UNUSUAL INCIDENT FORM

Date: 12/2/85 Time: 1:00 PM Call taken by: C. J. Stain  
 Call from: P. S. Rohrer For installation: ORNL

## NATURE OF INCIDENT:

Date: 12/1/85 Time: Afternoon  
 Location: Bldg 3517

## DESCRIPTION:

## COMMENTS:

Severity  
 Subcontractor, Contractor  
 PCB  
 Chemicals  
 Quantities  
 Human Injuries  
 Human Exposure  
 Damage  
 Action Taken  
 Applicable Regulations  
 Applicable Laws

On 12/1/85 shift operations  
 people detected increased Cesium  
 levels at 7500 Bridge on WOC.  
 These were investigated and  
 are believed to be caused  
 by a break in the storm  
 sewer at 3517 when a  
 bucket slid into an open

## Previous Similar Incident:

excavation of on 11/29/85. The  
 leak is being repaired and the excavation is sandbagged  
 to preclude other water from entering the drain. Levels  
 of Cesium do not represent health exposure hazard.

## Notification:

DOE ☒  
 PR ☐  
 COR ☐

Plant Manager ☒  
 K. Jarmolow ☐  
 Corporate ☐

Safety ☐  
 Security ☐  
 Other ☐

## Follow-up action needed:

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(Message 73, 1412 bytes)

Date: 3 Dec 1985 0951

From: Waldo Golliher/st

Sender: thorntrns at CSDVAX2

Subject: URGENT: DISCHARGE OF STRONTIUM-90 - ORGDP

To: u.thomb, u.sommerk, u.bryson, u.gollihrw, u.halljc, u.fensterr

To: u.lowes, u.shoemakj, u.petersca, u.furth, u.millerr

To: daltonj, coxcm

Cc: crowee, duncand, ingramj, hudsonj, rogersjg, philipja

Cc: wyattl

Dec 3 10 00 AM '85

101226

\* DISCHARGE OF STRONTIUM-90 - ORGDP

Yesterday afternoon, a discharge of Strontium-90 was detected in the White Oak Creek near the X-10 Plant. The K-25 drinking water intake is located approximately 4 miles downstream of where White Oak Creek discharges into the Clinch River.

As a precautionary measure, the K-25 water plant was shut down at 6:15 p.m. yesterday afternoon. Water samples collected at the intake to the water plant indicate Strontium-90 levels above drinking water standards. Water used throughout the plant since 6:15 p.m. yesterday is coming from our  
(Hit RETURN to continue)

storage tanks which, based on preliminary calculations, we do not feel have excessive levels of Strontium-90. Samples have been taken at the storage tanks and at several locations throughout the plant to confirm that K-25 drinking water does not pose a risk to employees.

You will be provided additional information as it becomes available.

WET/WRG/Health, Safety, and Environmental Affairs

12/3/85

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4) DESTINATION DISCONNECT

(Message 74, 1164 bytes)

Date: 3 Dec 1985 1546

From: Waldo Golliher

Sender: thornstns at CSDVAX2

Subject: URGENT: UPDATE ON STRONTIUM-90 IN WATER AT ORGDP

To: u.p3k

Cc: u.thomb, u.sommerk, u.bryson, u.gollihrw, u.halljc, u.fensterr

Cc: u.lowes, u.shoemakj, u.petersca, u.furth, u.millerr

Cc: daltonj, coxcm, u.patton, u.hallp, u.kolling, u.oakesm

Cc: u.riser

101224

\* UPDATE ON STRONTIUM-90 IN WATER AT ORGDP

The latest results of water samples taken from the K-25 drinking water system indicate that if this water source was used for six months the levels of Strontium-90 would be in excess of State drinking water standards. The health hazard for short-term usage of this supply is negligible. However, for employees' peace of mind, employees are advised not to drink water from the K-25 drinking water system until further evaluations are made.

Arrangements are being made to provide drinking water at several central (Hit RETURN to continue)

locations throughout the plant. Specific locations for drinking water and additional information will be provided when it is available.

WFT/WRG/Health, Safety, and Environmental Affairs

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(Message 75, 1090 bytes)

Date: 3 Dec 1985 1601

From: Clyde Hopkins

Sender: lyonsp at CSDVAX2

Subject: Re: UPDATE ON ORGDP WATER STATUS

In reply to: Your message of 3 Dec 1985 - 1535

To: keens

Cc: coxcm, feeg, postma, furth, harperj

The latest results of water samples taken from the K-25 drinking water system indicate that if employees were to drink this water for six months, the levels of Strontium-90 would be in excess of State drinking water standards. The health hazard for short-term usage of this supply is negligible, and therefore you should not be concerned about the amount of K-25 water you drank today. However, for employees' peace of mind and to demonstrate our continuing concern for employees' health and safety, employees are advised not to drink water from the K-25 drinking water system until further evaluations are made.

Arrangements are being made to provide drinking water at several central locations throughout the plant. Specific locations for drinking water (Hit RETURN to continue) and additional information will be provided as it is available.

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(Message 77, 1242 bytes)

Date: 4 Dec 1985 1137

From: Waldo Golliher

Sender: thornstns at CSDVAX2

Subject: URGENT: LATEST UPDATE ON THE ORGDP SANITARY WATER SYSTEM

To: u.p3k

Cc: u.thomb, u.sommerk, u.bryson, u.gollihrw, u.halljc, u.fensterr

Cc: u.lowes, u.shoemakj, u.petersca, u.furth, u.millerr

Cc: daltonj, coxdm, u.patton, u.hallp, u.kolling, u.oakesm

Cc: u.riser, u.greenr

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\* LATEST UPDATE ON THE ORGDP SANITARY WATER SYSTEM

Starting at 12 noon today, information meetings on the sanitary water situation will be held in the K-1002 auditorium. Anyone who has questions or wants additional information is invited to attend. Meetings are planned for 30-minute intervals until 5 p.m. today. Please space your attendance to avoid over crowding the facility.

The health hazard for short-term usage of this supply is negligible, and therefore you should not be concerned about the amount of K-25 water you have drunk in the last two days. However, for the employees' peace of mind and to demonstrate our continuing concern for employees' health and safety, employees are advised not to drink water from the K-25 drinking water system until further notice.

WFT/WRG/Health, Safety, and Environmental Affairs

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MESSAGE FROM SYSTEM

15:13:50 JOHNSON

TTC7: has been inactive for 5 min.

MESSAGE FROM SYSTEM

15:18:49 JOHNSON

TTC7: has been inactive for 10 min.

MESSAGE FROM SYSTEM

15:23:48 JOHNSON

TTC7: has been inactive for 15 min.

MESSAGE FROM SYSTEM

15:28:50 JOHNSON

TTC7: has been inactive for 20 min.

Session terminated.

%NONAME-W-NOMSG, Message number 00000000

(4) DESTINATION DISCONNECT